



## SEQUENCE LISTING

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OCT 28 2005

TECH CENTER 1600/2900

<110> Zhou, Shibin  
Zawel, Leigh  
Vogelstein, Bert  
Kinzler, Kenneth

<120> Human Fast-1 Gene

&lt;130&gt; 01107.10898

<140> 09/113,309  
<141> 1998-07-10

&lt;160&gt; 19

&lt;170&gt; FastSEQ for Windows Version 3.0

<210> 1  
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<212> PRT  
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<400> 2

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35 40 45  
Ala Pro Ser Arg Arg Leu Lys Leu Ala Gln Ile Ile Arg Gln Val Gln  
50 55 60  
Ala Val Phe Pro Phe Phe Arg Glu Asp Tyr Glu Gly Trp Lys Asp Ser  
65 70 75 80  
Ile Arg His Asn Leu Ser Ser Asn Arg Cys Phe Arg Lys Val Pro Lys  
85 90 95  
Asp Pro Ala Lys Pro Gln Ala Lys Gly Asn Phe Trp Ala Val Asp Val  
100 105 110  
Ser Leu Ile Pro Ala Glu Ala Leu Arg Leu Gln Asn Thr Ala Leu Cys  
115 120 125  
Arg Arg Trp Gln Asn Gly Gly Ala Arg Gly Ala Phe Ala Lys Asp Leu  
130 135 140  
Gly Pro Tyr Val Leu His Gly Arg Pro Tyr Arg Pro Pro Ser Pro Pro  
145 150 155 160  
Pro Pro Pro Ser Glu Gly Phe Ser Ile Lys Ser Leu Leu Gly Gly Ser  
165 170 175  
Gly Glu Gly Ala Pro Trp Pro Gly Leu Ala Pro Gln Ser Ser Pro Val  
180 185 190  
Pro Ala Gly Thr Gly Asn Ser Gly Glu Glu Ala Val Pro Thr Pro Pro  
195 200 205  
Leu Pro Ser Ser Glu Arg Pro Leu Trp Pro Leu Cys Pro Leu Pro Gly  
210 215 220  
Pro Thr Arg Val Glu Gly Glu Thr Val Gln Gly Gly Ala Ile Gly Pro  
225 230 235 240  
Ser Thr Leu Ser Pro Glu Pro Arg Ala Trp Pro Leu His Leu Gln  
245 250 255  
Gly Thr Ala Val Pro Gly Gly Arg Ser Ser Gly Gly His Arg Ala Ser  
260 265 270  
Leu Trp Gly Gln Leu Pro Thr Ser Tyr Leu Pro Ile Tyr Thr Pro Asn  
275 280 285  
Val Val Met Pro Leu Ala Pro Pro Pro Thr Ser Cys Pro Gln Cys Pro  
290 295 300  
Ser Thr Ser Pro Ala Tyr Trp Gly Val Ala Pro Glu Thr Arg Gly Pro  
305 310 315 320  
Pro Gly Leu Leu Cys Asp Leu Asp Ala Leu Phe Gln Gly Val Pro Pro  
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Asn Lys Ser Ile Tyr Asp Val Trp Val Ser His Pro Arg Asp Leu Ala  
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<212> PRT  
<213> Homo sapiens

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 35 40 45  
 Lys Trp Cys Glu Lys Ala Val Lys Ser Leu Val Lys Lys Leu Lys Lys  
 50 55 60  
 Thr Gly Arg Leu Asp Glu Leu Glu Lys Ala Ile Thr Thr Gln Asn Cys  
 65 70 75 80  
 Asn Thr Lys Cys Val Thr Ile Pro Ser Thr Cys Ser Glu Ile Trp Gly  
 85 90 95  
 Leu Ser Thr Pro Asn Thr Ile Asp Gln Trp Asp Thr Thr Gly Leu Tyr  
 100 105 110  
 Ser Phe Ser Glu Gln Thr Arg Ser Leu Asp Gly Arg Leu Gln Val Ser  
 115 120 125  
 His Arg Lys Gly Leu Pro His Val Ile Tyr Cys Arg Leu Trp Arg Trp  
 130 135 140  
 Pro Asp Leu His Ser His His Glu Leu Lys Ala Ile Glu Asn Cys Glu  
 145 150 155 160  
 Tyr Ala Phe Asn Leu Lys Asp Glu Val Cys Val Asn Pro Tyr His  
 165 170 175  
 Tyr Gln Arg Val Glu Thr Pro Val Leu Pro Pro Val Leu Val Pro Arg  
 180 185 190  
 His Thr Glu Ile Leu Thr Glu Leu Pro Pro Leu Asp Asp Tyr Thr His  
 195 200 205  
 Ser Ile Pro Glu Asn Thr Asn Phe Pro Ala Gly Ile Glu Pro Gln Ser  
 210 215 220  
 Asn Tyr Ile Pro Glu Thr Pro Pro Pro Gly Tyr Ile Ser Glu Asp Gly  
 225 230 235 240  
 Glu Thr Ser Asp Gln Gln Leu Asn Gln Ser Met Asp Thr Gly Ser Pro  
 245 250 255  
 Ala Glu Leu Ser Pro Thr Thr Leu Ser Pro Val Asn His Ser Leu Asp  
 260 265 270  
 Leu Gln Pro Val Thr Tyr Ser Glu Pro Ala Phe Trp Cys Ser Ile Ala  
 275 280 285  
 Tyr Tyr Glu Leu Asn Gln Arg Val Gly Glu Thr Phe His Ala Ser Gln  
 290 295 300  
 Pro Ser Leu Thr Val Asp Gly Phe Thr Asp Pro Ser Asn Ser Glu Arg  
 305 310 315 320  
 Phe Cys Leu Gly Leu Leu Ser Asn Val Asn Arg Asn Ala Thr Val Glu  
 325 330 335  
 Met Thr Arg Arg His Ile Gly Arg Gly Val Arg Leu Tyr Tyr Ile Gly  
 340 345 350  
 Gly Glu Val Phe Ala Glu Cys Leu Ser Asp Ser Ala Ile Phe Val Gln  
 355 360 365  
 Ser Pro Asn Cys Asn Gln Arg Tyr Gly Trp His Pro Ala Thr Val Cys  
 370 375 380  
 Lys Ile Pro Pro Gly Cys Asn Leu Lys Ile Phe Asn Asn Gln Glu Phe  
 385 390 395 400  
 Ala Ala Leu Leu Ala Gln Ser Val Asn Gln Gly Phe Glu Ala Val Tyr  
 405 410 415  
 Gln Leu Thr Arg Met Cys Thr Ile Arg Met Ser Phe Val Lys Gly Trp  
 420 425 430  
 Gly Ala Glu Tyr Arg Arg Gln Thr Val Thr Ser Thr Pro Cys Trp Ile  
 435 440 445  
 Glu Leu His Leu Asn Gly Pro Leu Gln Trp Leu Asp Lys Val Leu Thr  
 450 455 460  
 Gln Met Gly Ser Pro Ser Val Arg Cys Ser Ser Met Ser  
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55

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<211> 518  
<212> PRT  
<213> Xenopus laevis

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Gln Glu Gln Leu Pro Val Ala Thr Gly Gln Ser Tyr Asn His Ser Val  
35 40 45  
Gln Pro Trp Pro Gln Pro Trp Pro Pro Leu Ser Leu Tyr Arg Glu Gly  
50 55 60  
Gly Thr Trp Ser Pro Asp Arg Gly Ser Met Tyr Gly Leu Ser Pro Gly  
65 70 75 80  
Thr His Glu Gly Ser Cys Thr His Thr His Glu Gly Pro Lys Asp Ser  
85 90 95  
Met Ala Gly Asp His Thr Arg Ser Arg Lys Ser Lys Lys Asn Tyr  
100 105 110  
His Arg Tyr Tyr Lys Pro Pro Tyr Ser Tyr Leu Ala Met Ile Ala Leu  
115 120 125  
Val Ile Gln Asn Ser Pro Glu Lys Arg Leu Lys Leu Ser Gln Ile Leu  
130 135 140  
Lys Glu Val Ser Thr Leu Phe Pro Phe Asn Gly Asp Tyr Met Gly  
145 150 155 160  
Trp Lys Asp Ser Ile Arg His Asn Leu Ser Ser Asp Cys Phe Lys  
165 170 175  
Lys Ile Leu Lys Asp Pro Gly Lys Pro Gln Ala Lys Gly Asn Phe Trp  
180 185 190  
Thr Val Asp Val Ser Arg Ile Pro Leu Asp Ala Met Lys Leu Gln Asn  
195 200 205  
Thr Ala Leu Thr Arg Gly Gly Ser Asp Tyr Phe Val Gln Asp Leu Ala  
210 215 220  
Pro Tyr Ile Leu His Asn Tyr Lys Tyr Glu His Asn Ala Gly Ala Tyr  
225 230 235 240  
Gly His Gln Met Pro Pro Ser His Ala Arg Ser Leu Ser Leu Ala Glu  
245 250 255  
Asp Ser Gln Gln Thr Asn Thr Gly Gly Lys Leu Asn Thr Ser Phe Met  
260 265 270  
Ile Asp Ser Leu Leu His Asp Leu Gln Glu Val Asp Leu Pro Asp Ala  
275 280 285  
Ser Arg Asn Leu Glu Asn Gln Arg Ile Ser Pro Ala Val Ala Met Asn  
290 295 300  
Asn Met Trp Ser Ser Ala Pro Leu Leu Tyr Thr His Ser Lys Pro Thr  
305 310 315 320  
Arg Asn Ala Arg Ser Pro Gly Leu Ser Thr Ile His Ser Thr Tyr Ser  
325 330 335  
Ser Ser Ser Ser Ile Ser Thr Ile Ser Pro Val Gly Phe Gln Lys  
340 345 350  
Glu Gln Glu Lys Ser Gly Arg Gln Thr Gln Arg Val Gly His Pro Ile

355 360 365  
Lys Arg Ser Arg Glu Asp Asp Asp Cys Ser Thr Thr Ser Ser Asp Pro  
370 375 380  
Asp Thr Gly Asn Tyr Ser Pro Ile Glu Pro Pro Lys Lys Met Pro Leu  
385 390 395 400  
Leu Ser Leu Asp Leu Pro Thr Ser Tyr Thr Lys Ser Val Ala Pro Asn  
405 410 415  
Val Val Ala Pro Pro Ser Val Leu Pro Phe Phe His Phe Pro Arg Phe  
420 425 430  
Thr Tyr Tyr Asn Tyr Gly Pro Ser Pro Tyr Met Thr Pro Pro Tyr Trp  
435 440 445  
Gly Phe Pro His Pro Thr Asn Ser Gly Gly Asp Ser Pro Arg Gly Pro  
450 455 460  
Gln Ser Pro Leu Asp Leu Asn Met Leu Arg Ala Met Pro Pro Asn  
465 470 475 480  
Lys Ser Val Phe Asp Val Leu Thr Ser His Pro Gly Asp Leu Val His  
485 490 495  
Pro Ser Phe Leu Ser Gln Cys Leu Gly Ser Ser Gly Ser Pro Tyr Pro  
500 505 510  
Ser Arg Gln Gly Leu Met  
515